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Shot Data

Index

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SWEH-7-0010

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14. ABSTRACT This compilation contains yield values for Operation TEAPOT and specific shot data on ESS, APPLE, WASP PRIME, HA, POST, MET, APPLE II.					
15. SUBJECT TERMS Operation TEAPOT ESS APPLE WASP PRIME HA POST MET APPLE II					
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T E A P O T

DATE	BOMBARDIER	TYPE A/C	TYPE BOMB	DROP ALTITUDE ABOVE TARGET	TAS	CIRCULAR ERROR
18 Mar 55	Eichenberg	B-36		20,000	240	423/
29 Mar 55	Eichenberg	B-36		20,000	240	113/10
6 Apr 55	Schnecker	B-36		46,000	310	400/2
TEAPOT AVERAGE (3 BOMBERS) -					313.6 FT.	
TOTAL AVERAGE OF DATA (12 BOMBERS) -					267.5 FT.	

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by authority of E.O. 12958, as recommended in A.T.C. 107-1

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MILITARY EFFECTS GROUP
Joint Test Organization, Operation TEAPOT
Nevada Test Site, Mercury, Nevada

MEMORANDUM)

26 March 1955

NUMBER 114)

Yield Values For TEAPOT

1. The following yield values will be used for the TEAPOT Preliminary Weapons Effects Reports:

<u>SHOT</u>	<u>W in KT</u>
WASP	1.2 \pm 0.1
HORNET	3.6 \pm 0.1
MOTH	2.5 \pm 0.1
TURK	43 \pm 2.0
TESLA	7.0 \pm 0.2
ESS	1.2

2. A yield value for shot BEE has not as yet been determined. This value will be disseminated subsequently.

3. For report purposes it can be assumed that the yields of Jangle. "U" and "S" are identical to the yield for ESS.

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H. K. Gilbert
H. K. Gilbert
Colonel, USAF
Deputy Director

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MILITARY EFFECTS GROUP
Joint Test Organization Operation TEAPOT
Nevada Test Site, Mercury, Nevada

MEMORANDUM)

19 April 1955

NUMBER 16)

Shot Data on ESS

1. Location of Area T-10a

NSG: E 681,481.00 (in feet)
N 880,858.00 (in feet)
Z 4,288.00 (ground zero elevation in feet)

UTM: E 584,893.59 (in meters)
N 4,113,775.52 (in meters)

LATITUDE: 37° 10' 06.1263"

LONGITUDE: 116° 02' 37.7010"

2. Depth of Burst:

67 feet to center of core.

3. World Time (not corrected for transmission time):

12:30:00.01 ± 0.02 sec. (PST), 23 March 1955.

4. Yucca Station Weather Data (elevation 3,924 feet):

Barometric Pressure: 883 mb
Temperature: 18°C
Relative Humidity: 21%

5. Ground zero meteorological data (EG&G measurement):

Barometric Pressure: 870.9 mb
Wet Bulb Temperature: 41.6°F
Dry Bulb Temperature: 61.3°F
Relative Humidity: 8%
Dew Point: -4.8°C

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MILITARY EFFECTS GROUP
Joint Test Organization Operation TEAPOT
Nevada Test Site, Mercury, Nevada

MEMORANDUM)

19 April 1955

NUMBER 17)

Shot Data on APPLE

1. Location of Area T-4:

NSG: E 664,463.68 (in feet)
N 854,233.66 (in feet)
Z 4,308.75 (slab elevation in feet)

UTM: E 579,736.31 (in meters)
N 4,105,644.33 (in meters)

LATITUDE: 37° 05' 43.9200"
LONGITUDE: 116° 06' 09.9040"

2. Height of Burst:

500 foot tower.

3. World Time (not corrected for transmission time):

04:55:00.075 ± 0.001 sec. (PST), 29 March 1955.

4. Yucca Station Weather Data:

Barometric Pressure: 880 mb
Temperature: 0.5°C
Relative Humidity: 54%
Dew Point: -7.5°C

5. Height of Burst Weather Data (EG&G measurements made in the tower cab):

Barometric Pressure: 854.1 mb
Wet Bulb Temperature: 44.5°F
Dry Bulb Temperature: 52.2°F
Relative Humidity: 57%
Air Density: 1.043 g^m/liter

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MILITARY EFFECTS GROUP
Joint Test Organization Operation TEAPOT
Nevada Test Site, Mercury, Nevada

MEMORANDUM)

19 April 1955

NUMBER 18)

Shot Data on WASP PRIME

1. Location of Area T-7-4:

NSG: E 688,074.34 (in feet)
N 851,123.89 (in feet)
Z 4,194.00 (slab elevation in feet)

UTM: E 586,934.36 (in meters)
N 4,104,721.82 (in meters)

LATITUDE: 37° 05' 11.6856"

LONGITUDE: 116° 01' 18.7366"

2. Position of Burst (Air Zero):

NSG: E 688,012 + or - 10 feet
N 851,218 + or - 10 feet
Z 4,934 + or - 5 feet

3. Air Zero in respect to T-7-4:

North: 94 feet
West: 62 feet
Altitude: 740 feet
Circular Error: 113 feet

4. World Time (not corrected for transmission):

09:59:54.815 ± 0.001 sec. (PST), 29 March 1955

5. Yucca Station Weather Data:

Barometric pressure: 881 mb
Temperature: 17.00C
Relative Humidity: 28%
Dew Point: -1.00C

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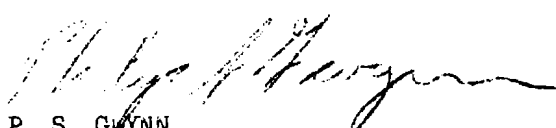
19 April 1955

6. Height of Burst Weather Data (EG&G measurements made in the tower cab):

Barometric Pressure: 847.0
Wet Bulb Temperature: 41.6°F
Dry Bulb Temperature: 52.3°F
Relative Humidity: 37%

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MILITARY EFFECTS GROUP
Joint Test Organization Operation TEAPOT
Nevada Test Site, Mercury, Nevada

MEMORANDUM)

19 April 1955

NUMBER 19)

Shot Data on HA

1. Location of Area T-5

NSG: E 677,714.65 (in feet)
N 829,987.41 (in feet)
Z 4,037.74 (slab elevation in feet)

UTM: E 583,800.00 (in meters)
N 4,098,270.00 (in meters)

LATITUDE: 37° 01' 43.3642"
LONGITUDE: 116° 03' 28.2624"

2. Position of Burst (Air zero with respect to ground zero (T-5):

South: 36 feet + or - 50 feet
West: 397 feet + or - 50 feet
Circular Error: 400 feet
Altitude: 36,620 + or - 100 feet (MSL)
NSG: E 677,318 + or - 50 feet
N 829,951 + or - 50 feet

3. World Time (not corrected for transmission time):

10:00:04.085 ⁺ 0.001 sec. (PST), 6 April 1955

4. Yucca Station Weather Data:

Barometric Pressure: 885 mb
Temperature: 10.5°C
Relative Humidity: 26%
Dew Point: -7.8°C

5. Height of Burst Weather Data:

Barometric Pressure: 222 mb
Temperature: -47.7°C
Density: 0.343 gm/liter

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MEMORANDUM NO. 19

19 April 1955

6. Tower Cab T-9c (EG&G measurements):

Wet Bulb Temperature: 41.5°F
Dry Bulb Temperature: 54°F
Relative Humidity: 30%

7. Slant Range of the B-36 Drop Aircraft (at zero time):

21,500 feet ± 300 feet

8. Spacing Between Smoke Trails:

Trails:	1 - 2	940 feet (center line to center line)
	2 - 3	555 feet
	3 - 4	250 feet
	4 - 5	350 feet
	5 - 6	260 feet
	6 - 7	445 feet
	7 - 8	690 feet

NOTE: Trail No. 1 is the southernmost trail and Trail No. 8 the northernmost.

Trail No. 3 was a "defective" trail in that it did not appear until the aircraft was approximately 7,000 feet beyond the zero position.

The average trail width was approximately 180 feet.

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MILITARY EFFECTS GROUP
Joint Test Organization Operation TEAPOT
Nevada Test Site, Mercury, Nevada

MEMORANDUM)

19 April 1955

NUMBER 20)

Shot Data on POST

1. Location of Area T-9c:

NSG: E 684,330.00 (in feet)
N 864,045.00 (in feet)
Z 4,235.80 (slab elevation in feet)

UTM: E 585,779.63 (in meters)
N 4,108,655.21 (in meters)

LATITUDE: 37° 07' 19.6965"
LONGITUDE: 116° 02' 03.8860"

2. Height of Burst:

300 foot Tower.

3. World Time (not corrected for transmission time):

04:30:00.176 ± 0.001 sec. (PST), 9 April 1955

4. Yucca Station Weather Data:

Barometric Pressure: 885 mb
Temperature: -2.0°C
Relative Humidity: 34%
Dew Point: -15.5°C

5. Height of Burst Weather Data (EG&G cab measurements):

Barometric Pressure (from interpolation): 862.5 mb
Wet Bulb (outside cab): 40.5°F
Dry Bulb (inside cab): 66.5°F
Dry Bulb (outside cab): 50.5°F
Relative Humidity: 40%
Air Density: 1.058 gm/l

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MILITARY EFFECTS GROUP
Joint Test Organization Operation TEAPOT
Nevada Test Site, Mercury, Nevada

MEMORANDUM)

19 April 1955

NUMBER 21)

Shot Data on MET

1. Location of Ground Zero:

NSG: E 716,000.29 (in feet)
N 746,249.98 (in feet)
Z 3,077.50 (slab elevation in feet)

UTM: E 595,555.64 (in meters)
N 4,072,793.89 (in meters)

LATITUDE: 36° 47' 52.6887"
LONGITUDE: 115° 55' 44.1086"

2. Height of Burst:

400 foot tower

3. World Time (not corrected for transmission time):

11:15:00.327 ± 0.001 sec. (PST), 15 April 1955

4. Yucca Station Weather Data:

Barometric Pressure: 880 mb
Temperature: 18.5°C
Relative Humidity: 21%
Dew Point: -4.0°C

5. Tower Cab Data (EG&G measurements):

Barometric Pressure: 895.1 mb
Wet Bulb Temperature: 49.3°F
Dry Bulb Temperature: 66.0°F
Relative Humidity: 26%
Air Density: 1.065 gm/l

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MILITARY EFFECTS GROUP
Joint Test Organization Operation TEAPOT
Nevada Test Site, Mercury, Nevada

2.8
#2

MEMORANDUM)

16 May 1955

NUMBER)

Shot Data on APPLE II

1. Location of Area T-1:

NSG: E 664,588.64 (in feet)
N 838,780.31 (in feet)
Z 4,236.00 (slab elevation in feet)

UTM: E 579,790.83 (in meters)
N 4,100,935.45 (in meters)

LATITUDE: 37° 03' 11.1095"
LONGITUDE: 116° 06' 09.4937"

2. Height of burst:

500 foot tower.

3. World Time (not corrected for transmission time):

04:10:00.013 plus or minus 1 (PST), 5 May 1955

4. Yucca Station Weather Data (elevation 3924 ft.):

Barometric Pressure: 881 mb
Temperature: 2.5° C
Dew Point: -9.2° C
Relative Humidity: 41%

5. Tower Cab Weather Data (EG&G measurements):

Barometric Pressure: 855.3 mb
Dry Bulb Temperature: 46.5° F
Wet Bulb Temperature: 60.0° F
Relative Humidity: 36.6%

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